

ABSTRACT OF THE DISCLOSURE

Input devices such as satellites, field sensors, electronic pads, cellular phones, and/or radio transmitters communicate information representing queries, reports, and/or instructions to an intention determination system that is accessible by a user interface with a display. The intention determination system includes an input module for processing the information received from the input devices; a language converter for converting the information from a natural language format to a restructured form in a position-based format; a database system for storing the received information, the restructured information, and reference information; and a rule-based analyzer for periodically retrieving and processing the stored information. The analyzer sends an alert to the user interface to notify the user if execution of one the instructions creates a potential conflict with the other stored information. The user interface can include a node-based navigation system that allows user customization of how the alert is displayed.

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